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IMPROVED DESIGNS OF INSTRUMENTS

ORGANIC GLASS WATER METER -- Moscow, Izvestiya, 8 May 52

Matveyev, chief of the Chelyabinsk Water Meter Testing Station, has designed an improved water meter. Organic glass replaces bronze in several parts of the instrument. The organic glass water meter is more accurate than the metal one. Organic glass is not subject to oxidization or disintegration. Consumption of valuable bronze was reduced 15 times by using glass instead of bronze in this meter.

The Ministry of Municipal Services RSFSR has ordered the manufacture of 50 organic glass water meters.

LARGEST MEASURING MACHINE IN THE WORLD -- Moscow, Pionerskaya Pravda, 9 May 52

Recently, Soviet scientists and engineers built the largest measuring machine in the world. It can measure items ranging in size from 12 meters to one millimeter. This machine has been installed at the All-Union Scientific Research Institute of Metrology imeni D. I. Mendeleyev in Leningrad, in a room maintained at a constant temperature of plus 20 degrees.

The machine has a large 12-meter bed. To determine the precise length of an item, it is placed on a special table and secured between parts of the bed. The machine gives three readings, meters, millimeters, and microns, on three scales. The length of the item is determined by a large scale which is divided into decimeters. On the second smaller glass scale, the reading in millimeters can be seen through a microscope.

The third scale, only 0.2 millimeters long, is divided into 200 microns. A mirror reflects this scale, and a special optical device magnifies the reflection, by means of which the indication on the scale can be seen.

Thus, the length of the item is determined with an accuracy of one micron.

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DP-1 DEFECTOSCOPE -- Minsk, Sovetskaya Belorussiya, 10 May 52

The Minsk Tool Plant, Ministry of Machine Tool Building USSR, has developed the DP-1 defectoscope, which is used for testing hack-saw blades and milling cutters.

The Minsk Tractor Plant is using the DP-2 defectoscope for testing valves. Magnetic defectoscopes have been designed for testing Diesel crankshafts.

IMPROVED ELECTROPLATING APPARATUS -- Leningradskaya Pravda, 11 May 52

Recently, the All-Union Scientific Institute for the Welding and Cutting of Metals designed the EM-6 automatic electroplating apparatus, which is five to ten times as productive as the EM-4 manual electroplater used up to now. The EM-6 device has been accepted for series production.

SHIP INSTRUMENTS TO USSR WEATHER STATIONS -- Riga, Sovetskaya Latviya, 14 May 52

In 1952, the Riga Gidrometpribor Plant shipped hundreds of various precision instruments to large construction projects. The plant has sent instruments to meteorological stations in the Far North, the Caucasus, the Kuril Islands, and the Kara-Kumy area.

BUILDS ELECTRICAL INSTRUMENTS FOR PLANT, SCHOOL LABORATORIES -- Moscow, Vechernyaya Moskva, 17 May 52

The Fizpribor Plant, Main Administration of Laboratory Instrument , Ministry of Machine and Instrument Building, supplies plant and school laboratories with electrical instruments for inspecting watch movements. It has also developed a new method for simultaneous machining of a large number of parts.

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